## PATENT COOPERATION TREATY

|  | From | the |
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| INTERNATIONAL | SEARCHING | ALITHORITY |
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| To:<br>LEE, Young-Pil  |   | <b>PCT</b>   |  |  |  |  |
|--|---|--|--|--|--|--|
| The Cheonghwa Building, 1571-18 Seocho-dong, Se Seoul 137-874, Republic of Korea   | -   '''   | WRITTEN OPINION OF THE<br>INTERNATIONAL SEARCHING AUTHORITY                          |  |  |  |  |
|  |   | (PCT Rule 43bis.1)   |  |  |  |  |
|  | Date of mailing (day/month/year)  | 31 MARCH 2005 (31.03.2005)   |  |  |  |  |
| Applicant's or agent's file reference SH-21709-PCT   | FOR FURTHER A   | CTION<br>See paragraph 2 below   |  |  |  |  |
|  | filing date (day/month/year)  EMBER 2004 (25.11.2004)   | Priority date(day/month/year) 29 NOVEMBER 2003 (29.11.2003)                          |  |  |  |  |
| International Patent Classification (IPC) or both nation IPC7 H03M 13/27   | al classification and IPC   |  |  |  |  |  |
| Applicant SAMSUNG ELECTRONICS CO., LTD. et al  |   |  |  |  |  |  |
| Box No. IV Lack of unity of invention  | n with regard to novelty, inventive<br>ale 43bis.1(a)(i) with regard to nov<br>oporting such statement<br>ational application | step and industrial applicability velty, inventive step or industrial applicability; |  |  |  |  |
| <ol> <li>FURTHER ACTION         If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.     </li> <li>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.         For further options, see Form PCT/ISA/220.     </li> </ol> |   |  |  |  |  |  |
| 3. For further details, see notes to Form PCT/ISA/220  |   |  |  |  |  |  |

Name and mailing address of the ISA/KR



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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/003061

| Box No. 1 Basis of this opinion   |
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|   |
| <ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language in<br/>which it was filed, unless otherwise indicated under this item.</li> </ol>   |
| This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).   |
| <ol> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</li> </ol>  |
| a. type of material  a sequence listing  table(s) related to the sequence listing   |
|   |
| b. format of material in wirtten format in computer readable form   |
| c. time of filing/furnishing  |
| contained in the international application as filed.  |
| filed together with the international application in computer readable form.  |
| furnished subsequently to this Authority for the purposes of search.  |
| In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. |
| 4. Additional comments:   |
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2004/003061

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;

|    | citations and explanat                                  | ions suppoi | rting such statement                                 |           |
|----|---|-------------|--|-----------|
| 1. | Statement   |             |  |           |
|    | Novelty (N)   | Claims      | 1-12   | _ YES     |
|    |   | Claims      |  | NO        |
|    | Inventive step (IS)                                     | Claims      | 1-12   | _ YES     |
|    |   | Claims      |  | _ NO      |
|    | Industrial applicability (IA)                           | Claims      | 1-12   | YES       |
|    |   | Claims      |  | _<br>_ NO |
|    | Citations and explanations:  The novelty of the subject | ct matter   | claimed can be acknowledged, and also the subject n  | natter of |
|    | the claim 1 to 12 appears                               | to invol    | ve an inventive step in the sense of ART 33(3)PCT as | well.     |
|    | The industrial applicabili                              | ity of said | d subject-matter is self-evident.                    |           |
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